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FILE CONTENT: 1840 - 24 Apr 2005 VOL 142 ISS 17

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L2
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> ACT ZINNA677A/A -----

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L4
                  STR
L_5
                  STR
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L7

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> 2389 SEA FILE=CASREACT SUB=L6 SSS FUL L5 (24843 REACTIONS) _____

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L8
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22 S L8 AND (PY<=2001 OR PRY<=2001 OR AY<=2001) L9 L10

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1 S L8 AND CLARIANT?/PA,CS L11

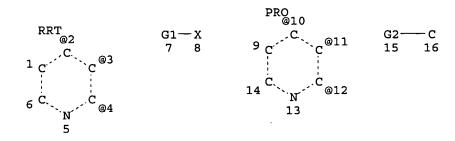
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22 S L9-L11 L13

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=> d sta que 17
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STR L4



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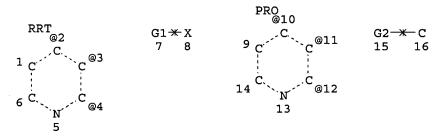
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

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NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE L5 STR



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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE

L6 (5208) SEA FILE=CASREACT SSS FUL L4 (62854 REACTIONS)

L7 2389 SEA FILE=CASREACT SUB=L6 SSS FUL L5 (24843 REACTIONS)

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SEARCH TIME: 00.00.03

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L12 ANSWER 1 OF 10 CASREACT COPYRIGHT 2005 ACS on STN

AN 141:260503 CASREACT

TI "Acetylene Zipper" Reactions and Pd-Cu-Catalyzed Cross-coupling in the Synthesis of Vicinal 1,3-Alkadiynylarylamines and Aminopyridines

- AU Balova, I. A.; Morozkina, S. N.; Sorokoumov, V. N.; Vinogradova, O. V.; Vasilevskii, S. F.
- CS St. Petersburg State University, St. Petersburg, 198504, Russia
- SO Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2003), 39(11), 1613-1617
 CODEN: RJOCEQ; ISSN: 1070-4280
- PB MAIK Nauka/Interperiodica Publishing
- DT Journal
- LA English

Referenced Author	Year	VOL	PG	Referenced Work	Referenced
(RAU)	(RPY)	(RVL)	(RPG)	(RWK)	File
=======================================	+=====	+=====	+======	+=============	+=======
Balova, I	2003	44	107	Tetrahedron Lett	CAPLUS
Balova, I	1988	26	626	Zh Org Khim	
Balova, I	1986	22	2459	ZhOrKh	
Boese, R	1992	31	1643	Angew, Chem Int Ed E	
Brown, C	1975	97	891	J Am Chem Soc	CAPLUS
Bryuster, R	1990	2	271	SOP	
Castro, C	1963	28	2163	J Org Chem	CAPLUS
Chattaway, F	1914		124	J Chem Soc	
Favorskii, A	1886	18	319	Zh Russian Khim Obsh	
Hey, A	1962	27	3320	J Org Chem	
Katritzky, A	1997		715	J Org Chem	CAPLUS
Liao, H	1995	60	3711	J Org Chem	CAPLUS
Michel, A	1878	11	108	Ber	
Okada, S	1994	67	455	Bull Chem Soc Jpn	CAPLUS
Richter	1883	16	677	Ber	
Shvartsberg, M	1980	7	1690	Izv Akad Nauk SSSR,	
Shvartsberg, M	1982	11	2524	Izv Akad Nauk SSSR,	
Sonogashira, K	1975		4467	Tetrahedron Lett	CAPLUS
Spence, J	1996	61	4014	J Org Chem	CAPLUS
Tarasova, O	1993	6	571	Synthesis	
Tarasova, O	1996	8	1208	Zh Org Khim	
Vasilevskii, S	1990	9	2089	Izv Akad Nauk SSSR,	
Vasilevsky, S	1995		775	Lieb Ann Chem	CAPLUS

=> d l12 bib retable 2-10

- L12 ANSWER 2 OF 10 CASREACT COPYRIGHT 2005 ACS on STN
- AN 139:214146 CASREACT
- TI Cross-Coupling Reactions of (1-Fluorovinyl)methyldiphenylsilane with Aryl Halides and Aryl Triflates
- AU Hanamoto, Takeshi; Kobayashi, Tomoko
- CS Department of Chemistry and Applied Chemistry, Saga University, Saga, 840-8502, Japan
- SO Journal of Organic Chemistry (2003), 68(16), 6354-6359 CODEN: JOCEAH; ISSN: 0022-3263
- PB American Chemical Society
- DT Journal
- LA English

Referenced Author (RAU)	Year (RPY)		PG (RPG)	Referenced Work (RWK)	Referenced File
Allmendinger, T Casado, A Chen, C Chen, C Echavarren, A Echavarren, A	1990 2000 1999 1997 1987 1988	31 122 64 38 109	7297	Tetrahedron Lett J Am Chem Soc J Org Chem Tetrahedron Lett J Am Chem Soc J Am Chem Soc	CAPLUS CAPLUS CAPLUS CAPLUS CAPLUS CAPLUS

Farina, V	1991	113	9585	J Am Chem Soc	CAPLUS
Fujiwara, M	1999	40	7261	Tetrahedron Lett	CAPLUS
Gharat, L	1996	43	185	Heterocycles	
Hanamoto, T	2002	75	2497	Bull Chem Soc Jpn	CAPLUS
Hanamoto, T	1999		151	Chem Commun	CAPLUS
Hanamoto, T	1999		2397	Chem Commun	CAPLUS
Hanamoto, T	2000		107	J Chem Soc, Perkin T	
Hanamoto, T	2002	118	99	J Fluorine Chem	CAPLUS
Hanamoto, T	2001		1320	Synlett	CAPLUS
Hanamoto, T	2001		281	Synlett	CAPLUS
Ichikawa, J	1996	37	8799	Tetrahedron Lett	CAPLUS
Jeong, I	2000	41	8917	Tetrahedron Lett	CAPLUS
Know, H	1990	55	3114	J Org Chem	Í
Kuhhar', V	1995			Fluorine-containing	
Lam, P	2000	122	7600	J Am Chem Soc	CAPLUS
Liu, Q	2000	41	8045	Tetrahedron Lett	CAPLUS
Matthews, D	1993	34	3057	Tetrahedron Lett	CAPLUS
Matthews, D	1994	35	1027	Tetrahedron Lett	CAPLUS
Matthews, D	1994	35	5177	Tetrahedron Lett	CAPLUS
McCarthy, J	1991	113	7439	J Am Chem Soc	CAPLUS
Netherton, M	2001	3	4295	Org Lett	CAPLUS
Nishihara, Y	2000	65	1780	J Org Chem	CAPLUS
Sabol, J	1992	33	3101	Tetrahedron Lett	CAPLUS
Scott, W	1986	108	3033	J Am Chem Soc	CAPLUS
Stang, P	1982		85	Synthesis	CAPLUS

- L12 ANSWER 3 OF 10 CASREACT COPYRIGHT 2005 ACS on STN
- AN 139:85196 CASREACT
- TI Catalytic Asymmetric Synthesis of Quaternary Carbons Bearing Two Aryl Substituents. Enantioselective Synthesis of 3-Alkyl-3-Aryl Oxindoles by Catalytic Asymmetric Intramolecular Heck Reactions
- AU Dounay, Amy B.; Hatanaka, Keiko; Kodanko, Jeremy J.; Oestreich, Martin; Overman, Larry E.; Pfeifer, Lance A.; Weiss, Matthew M.
- CS Department of Chemistry, University of California, Irvine, CA, 92697-2025, USA
- SO Journal of the American Chemical Society (2003), 125(20), 6261-6271 CODEN: JACSAT; ISSN: 0002-7863
- PB American Chemical Society
- DT Journal
- LA English

Referenced Author (RAU) Year (RPY) VOL (RPG) PG (RWK) Referenced File Alcazar-Roman, L 2002 21 491 Organometallics CAPLUS Amatore, C 1997 119 5176 J Am Chem Soc CAPLUS Amatore, C 1999 576 254 J Organomet Chem CAPLUS Amatore, C 2001 20 3241 Organometallics CAPLUS Amthoni, U 1999 13 163 Alkaloids:Chemical a CAPLUS CAPLUS Ashimori, A 1998 120 6477 J Am Chem Soc CAPLUS Ashimori, A 1998 120 6488 J Am Chem Soc CAPLUS Carpenter, J 1997 62 7768 J Org Chem CAPLUS <th>RETABLE</th> <th></th> <th></th> <th></th> <th></th> <th></th>	RETABLE					
Alcazar-Roman, L	Referenced Author	Year	VOL	PG	Referenced Work	Referenced
Amatore, C 1997 119 5176 J Am Chem Soc CAPLUS Amatore, C 1999 576 254 J Organomet Chem CAPLUS Amatore, C 2001 20 3241 Organometallics CAPLUS Anthoni, U 1999 13 163 Alkaloids:Chemical a CAPLUS Ashimori, A 1998 120 6477 J Am Chem Soc CAPLUS Ashimori, A 1998 120 6488 J Am Chem Soc CAPLUS Ashimori, A 1998 120 6488 J Am Chem Soc CAPLUS Ashimori, A 1993 58 6949 J Org Chem CAPLUS Carpenter, N 1997 62 7768 J Org Chem CAPLUS Carpenter, N 1989 54 5846 J Org Chem CAPLUS Cochran, J 2001 40 4591 Angew Chem, Int Ed CAPLUS Cochran, J 1990 31 6621 Tetrahedron Lett CAPLUS Corey, E 1998 37 388 Angew Chem, Int Ed Dankwardt, J 1995 60 2312 J Org Chem CAPLUS Catalytic Asymmetric Caplus Cochran, V 2000 Catalytic Asymmetric Chem Rev, in press CAPLUS Farina, V 1991 113 9585 J Am Chem Soc CAPLUS	(RAU)	(RPY)	(RVL)	(RPG)	(RWK)	File
Amatore, C 1997 119 5176 J Am Chem Soc CAPLUS Amatore, C 1999 576 254 J Organomet Chem CAPLUS Amatore, C 2001 20 3241 Organometallics CAPLUS Anthoni, U 1999 13 163 Alkaloids:Chemical a CAPLUS Ashimori, A 1998 120 6477 J Am Chem Soc CAPLUS Ashimori, A 1998 120 6488 J Am Chem Soc CAPLUS Ashimori, A 1998 120 6488 J Am Chem Soc CAPLUS Ashimori, A 1993 58 6949 J Org Chem CAPLUS Carpenter, N 1997 62 7768 J Org Chem CAPLUS Carpenter, N 1989 54 5846 J Org Chem CAPLUS Cochran, J 2001 40 4591 Angew Chem, Int Ed CAPLUS Cochran, J 1990 31 6621 Tetrahedron Lett CAPLUS Corey, E 1998 37 388 Angew Chem, Int Ed Dankwardt, J 1995 60 2312 J Org Chem CAPLUS Catalytic Asymmetric Caplus Cochran, V 2000 Catalytic Asymmetric Chem Rev, in press CAPLUS Farina, V 1991 113 9585 J Am Chem Soc CAPLUS	=======================================	+=====-	-=====-	}======	+====================================	}========
Amatore, C 1999 576 254 J Organomet Chem CAPLUS Amatore, C 2001 20 3241 Organometallics CAPLUS Anthoni, U 1999 13 163 Alkaloids:Chemical a CAPLUS Ashimori, A 1998 120 6477 J Am Chem Soc CAPLUS Ashimori, A 1998 120 6488 J Am Chem Soc CAPLUS Ashimori, A 1993 58 6949 J Org Chem CAPLUS Ashimori, A 1997 62 7768 J Org Chem CAPLUS Carpenter, N 1989 54 5846 J Org Chem CAPLUS Christoffers, J 2001 40 4591 Angew Chem, Int Ed CAPLUS Cochran, J 1990 31 6621 Tetrahedron Lett CAPLUS Corey, E 1998 37 388 Angew Chem, Int Ed Dankwardt, J 1995 60 2312 J Org Chem CAPLUS Donde, Y 2000 Catalytic Asymmetric Dounay, A 2003 103 Chem Rev, in press CAPLUS Farina, V 1991 113 9585 J Am Chem Soc CAPLUS CAPLUS	Alcazar-Roman, L	2002	21	491	Organometallics	CAPLUS
Amatore, C 2001 20 3241 Organometallics CAPLUS Anthoni, U 1999 13 163 Alkaloids:Chemical a CAPLUS Ashimori, A 1998 120 6477 J. Am. Chem. Soc CAPLUS Ashimori, A 1998 120 6488 J. Am. Chem. Soc CAPLUS Ashimori, A 1993 58 6949 J. Org. Chem. CAPLUS Ashimori, A 1993 58 6949 J. Org. Chem. CAPLUS Carpenter, J 1997 62 7768 J. Org. Chem. CAPLUS Carpenter, N 1989 54 5846 J. Org. Chem. CAPLUS Christoffers, J 2001 40 4591 Angew. Chem. Int. Ed. CAPLUS Cochran, J 1990 31 6621 Tetrahedron. Lett. CAPLUS Corey, E 1998 37 388 Angew. Chem. Int. Ed. Dankwardt, J 1995 60 2312 J. Org. Chem. CAPLUS Catalytic Asymmetric Chem. Rev., in. press. CAPLUS Farina, V 1991 113 9585 J. Am. Chem. Soc. CAPLUS CAP	Amatore, C	1997	119	5176	J Am Chem Soc	CAPLUS
Anthoni, U	Amatore, C	1999	576	254	J Organomet Chem	CAPLUS
Ashimori, A	Amatore, C	2001	20	3241	Organometallics	CAPLUS
Ashimori, A	Anthoni, U	1999	13	163	Alkaloids:Chemical a	CAPLUS
Ashimori, A	Ashimori, A	1998	120	6477	J Am Chem Soc	CAPLUS
Betzer, J 1997 62 7768 J Org Chem CAPLUS Carpenter, N 1989 54 5846 J Org Chem CAPLUS Christoffers, J 2001 40 4591 Angew Chem, Int Ed CAPLUS Cochran, J 1990 31 6621 Tetrahedron Lett CAPLUS Corey, E 1998 37 388 Angew Chem, Int Ed CAPLUS Dankwardt, J 1995 60 2312 J Org Chem CAPLUS Donde, Y 2000 Catalytic Asymmetric CAPLUS Dounay, A 2003 103 Chem Rev, in press CAPLUS Farina, V 1991 113 9585 J Am Chem Soc CAPLUS	Ashimori, A	1998	120	6488	J Am Chem Soc	CAPLUS
Carpenter, N 1989 54 5846 J Org Chem CAPLUS Christoffers, J 2001 40 4591 Angew Chem, Int Ed CAPLUS Cochran, J 1990 31 6621 Tetrahedron Lett CAPLUS Corey, E 1998 37 388 Angew Chem, Int Ed CAPLUS Dankwardt, J 1995 60 2312 J Org Chem CAPLUS Donde, Y 2000 Catalytic Asymmetric CAPLUS Dounay, A 2003 103 Chem Rev, in press CAPLUS Farina, V 1991 113 9585 J Am Chem Soc CAPLUS	Ashimori, A	1993	58	6949	J Org Chem	CAPLUS
Christoffers, J 2001 40 4591 Angew Chem, Int Ed CAPLUS Cochran, J 1990 31 6621 Tetrahedron Lett CAPLUS Corey, E 1998 37 388 Angew Chem, Int Ed Dankwardt, J 1995 60 2312 J Org Chem CAPLUS Catalytic Asymmetric Dounay, A 2003 103 Chem Rev, in press CAPLUS Farina, V 1991 113 9585 J Am Chem Soc CAPLUS	Betzer, J	1997	62	7768	J Org Chem	CAPLUS
Cochran, J 1990 31 6621 Tetrahedron Lett CAPLUS Corey, E 1998 37 388 Angew Chem, Int Ed Angew Chem, Int Ed CAPLUS Dankwardt, J 1995 60 2312 J Org Chem CAPLUS Donde, Y 2000 Catalytic Asymmetric CAPLUS Dounay, A 2003 103 Chem Rev, in press CAPLUS Farina, V 1991 113 9585 J Am Chem Soc CAPLUS	Carpenter, N	1989	54	5846	J Org Chem	CAPLUS
Corey, E 1998 37 388 Angew Chem, Int Ed CAPLUS Dankwardt, J 1995 60 2312 J Org Chem CAPLUS Donde, Y 2000 Catalytic Asymmetric Chem Rev, in press CAPLUS Farina, V 1991 113 9585 J Am Chem Soc CAPLUS	Christoffers, J	2001	40	4591	Angew Chem, Int Ed	CAPLUS
Dankwardt, J 1995 60 2312 J Org Chem CAPLUS Donde, Y 2000 Catalytic Asymmetric Dounay, A 2003 103 Chem Rev, in press CAPLUS Farina, V 1991 113 9585 J Am Chem Soc CAPLUS	Cochran, J	1990	31	6621	Tetrahedron Lett	CAPLUS
Donde, Y 2000 Catalytic Asymmetric Dounay, A 2003 103 Chem Rev, in press CAPLUS Farina, V 1991 113 9585 J Am Chem Soc CAPLUS	Corey, E	1998	37	388	Angew Chem, Int Ed	
Dounay, A 2003 103 Chem Rev, in press CAPLUS Farina, V 1991 113 9585 J Am Chem Soc CAPLUS	Dankwardt, J	1995	60	2312	J Org Chem	CAPLUS
Farina, V 1991 113 9585 J Am Chem Soc CAPLUS	Donde, Y	2000			Catalytic Asymmetric	
	Dounay, A	2003	103		Chem Rev, in press	CAPLUS
Farina, V 1994 59 5905 J Org Chem CAPLUS		1991	113	9585	J Am Chem Soc	CAPLUS
	Farina, V	1994	59	5905	J Org Chem	CAPLUS

Flack, H	1983	A39	876	Acta Crystallogr	CAPLUS
Han, X	1999	121	7600	J Am Chem Soc	CAPLUS
Hii, K	1997	36	984	Angew Chem, Int Ed E	CAPLUS
Kelly, T	1994	35	9003	Tetrahedron Lett	CAPLUS
Lebsack, A	2002	124	9008	J Am Chem Soc	CAPLUS
Liebeskind, L	1990	55	5359	J Org Chem	CAPLUS
Link, J	2002	60	157	Org React	CAPLUS
Matsuura, T	1998	120	6500	J Am Chem Soc	CAPLUS
Minor, K	1997	62	6379	J Org Chem	
Nilson, P	2001	123	8217	J Am Chem	
Oestreich, M	2001	40	1439	Angew Chem, Int Ed	CAPLUS
Olah, G	1974	96	2892	J Am Chem Soc	CAPLUS
Overman, L	2000	39	4596	Angew Chem, Int Ed	CAPLUS
Overman, L	1997	36	518	Angew Chem, Int Ed E	CAPLUS
Ozawa, F	1992		2177	Chem Lett	CAPLUS
Park, Y	1994	31	1625	J Heterocycl Chem	CAPLUS
Sato, Y	1989	54	4738	J Org Chem	CAPLUS
Shibasaki, M	1996		119	Advances in Metal-Or	CAPLUS
Shibasaki, M	1999		1	J Organomet Chem	CAPLUS
Stahl, S	2003	125	12	J Am Chem Soc	CAPLUS
Takahashi, C	1994		1859	J Chem Soc, Perkin T	CAPLUS
Takaya, H	1986	51	629	J Org Chem	CAPLUS
The Cambridge Crystallo]		İ	deposit@ccdc.cam.ac.	
Ucar, H	1998	41	1138	J Med Chem	CAPLUS
Witulski, B	2000	56	8473	Tetrahedron	CAPLUS
Zhang, H	1990	55	1857	J Org Chem	CAPLUS

- L12 ANSWER 4 OF 10 CASREACT COPYRIGHT 2005 ACS on STN
- AN 138:321121 CASREACT
- TI Practical Asymmetric Synthesis of 1,2-Diamines in the 3-Aminoazepane Series
- AU Cutri, S.; Bonin, M.; Micouin, L.; Husson, H.-P.; Chiaroni, A.
- CS Laboratoire de Chimie Therapeutique, UMR 8638 associee au CNRS et a l'Universite Rene Descartes, Paris, 75270, Fr.
- SO Journal of Organic Chemistry (2003), 68(7), 2645-2651 CODEN: JOCEAH; ISSN: 0022-3263
- PB American Chemical Society
- DT Journal
- LA English

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG RPG)	Referenced Work	Referenced File
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Alexakis, A	1996	68	531	Pure Appl Chem	CAPLUS
Bloch, R	1998	98	1407	Chem Rev	CAPLUS
Bonin, M	1992	70	54	Org Synth	CAPLUS
Chong, H	2002		2080	J Chem Soc, Perkin T	CAPLUS
Chong, H	2001	66	7745	J Org Chem	CAPLUS -
Corey, E	1989	111	5493	J Am Chem Soc	CAPLUS
Cutri, S	2000	41	1179	Tetrahedron Lett	CAPLUS
Enders, D	1997	8	1895	Tetrahedron:Asymmetr	CAPLUS
Evans, A	1999	1	1929	Org Lett	
Froelich, O	1996	61	6700	J Org Chem	CAPLUS
Hirokawa, Y	1998	8	619	Bioorg Med Chem Lett	CAPLUS
Jung, M	2000	2	2659	Org Lett	CAPLUS
Kantorowski, E	2000	56	4317	Tetrahedron	CAPLUS
Kimura, K	1987	52	836	J Org Chem	CAPLUS
Lucet, D	1998	37	2581	Angew Chem, Int Ed	
Matecka, D	1996	39	4704	J Med Chem	CAPLUS
Meyers, A	2001	66	1413	J Org Chem	CAPLUS
Pawlenko, S	1992	E14a/		Houben-Weyl Methoden	
Rezler, E	1997	40	3508	J Med Chem	CAPLUS

Steining, A	2000	32	205	Org Prep Proc Int	
Stevens, R	1984	17	289	Acc Chem Res	CAPLUS
Zhao, S	1999	7	1647	Bioorg Med Chem	CAPLUS

- L12 ANSWER 5 OF 10 CASREACT COPYRIGHT 2005 ACS on STN
- AN 138:287516 CASREACT
- TI Synthesis of Two Fluoro Analogues of the Nicotinic Acetylcholine Receptor
 Agonist UB-165
- AU Sutherland, Andrew; Gallagher, Timothy; Sharples, Christopher G. V.; Wonnacott, Susan
- CS School of Chemistry, University of Bristol, Bristol, BS8 1TS, UK
- SO Journal of Organic Chemistry (2003), 68(6), 2475-2478 CODEN: JOCEAH; ISSN: 0022-3263
- PB American Chemical Society
- DT Journal
- LA English

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
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Bouillon, A	2002	58	2885	Tetrahedron	CAPLUS
Bouillon, A	2002	58	3323	Tetrahedron	CAPLUS
Carroll, F	2001	44	2229	J Med Chem	CAPLUS
Carroll, F	2001	44	4039	J Med Chem	CAPLUS
Damaj, M	1994	664	34	Brain Res	CAPLUS
Gohlke, H	2002	45	1064	J Med Chem	CAPLUS
Gungor, T	1981	215	139	J Organomet Chem	CAPLUS
Holladay, M	1997	40	4169	J Med Chem	CAPLUS
Karig, G	2001	3	835	Org Lett	CAPLUS
Lin, N	1998	8	991	Expert Opin Ther Pat	CAPLUS
Mongin, F	2001	57	4059	Tetrahedron	CAPLUS
Negishi, E	1982	18	117	Heterocycles	CAPLUS
Queguiner, G	1991	52	187	Adv Heterocycl Chem	CAPLUS
Schmitt, J	2000	7	749	Curr Med Chem	CAPLUS
Senokuchi, K	1994		343	Synlett	CAPLUS
Sharples, C	2002	45	3235	J Med Chem	CAPLUS
Sharples, C	2000	20	2783	J Neurosci	CAPLUS
Sullivan, J	1994	271	624	J Pharmacol Exp Ther	CAPLUS
Suzuki, A	1994	66	213	Pure Appl Chem	CAPLUS
Tonder, J	2001	8	651	Curr Med Chem	CAPLUS
Williams, M	1996	5	1035	Exp Opin Invest Drug	CAPLUS
Wright, E	1997	7	2867	Bioorg Med Chem Lett	CAPLUS

- L12 ANSWER 6 OF 10 CASREACT COPYRIGHT 2005 ACS on STN
- AN 138:271643 CASREACT
- TI Preparation of Nitrogen-Containing π -Deficient Heteroaromatic Grignard Reagents: Oxidative Magnesiation of Nitrogen-Containing π -Deficient Halogenoheteroaromatics Using Active Magnesium
- AU Sugimoto, Osamu; Yamada, Shigeru; Tanji, Ken-ichi
- CS School of Food and Nutritional Sciences, Laboratory of Organic Chemistry, University of Shizuoka, Shizuoka, 422-8526, Japan
- SO Journal of Organic Chemistry (2003), 68(5), 2054-2057 CODEN: JOCEAH; ISSN: 0022-3263
- PB American Chemical Society
- DT Journal
- LA English

	Year (RPY)	PG (RPG)	Referenced Work (RWK)	Referenced File
Abarbri, M	+====- 2000	 	+=====================================	+======= CAPLUS

Abarbri, M	1999	40	7449	Tetrahedron Lett	CAPLUS
Bell, A	1987		843	Synthesis	CAPLUS
Berillon, L	1998		1359	Synlett	CAPLUS
Chelucci, G	1992	3	1235	Tetrahedron: Asymmetr	CAPLUS
Furukawa, N	1987	28	5845	Tetrahedron Lett	CAPLUS
Gomez, I	2000	56	4043	Tetrahedron	CAPLUS
Gros, P	1997		3597	J Chem Soc, Perkin T	CAPLUS
Hannon, M	1998	39	8509	Tetrahedrion Lett	CAPLUS
Higashino, T	1962	10	1043	Chem Pharm Bull	CAPLUS
Kondo, Y	1994	37	1467	Heterocycles	CAPLUS
Kondo, Y	1996	Ì	1781	J Chem Soc, Perkin T	CAPLUS
Moody, C	1998		1039	Synthesis	CAPLUS
Peterson, M	1997	62	8237	J Org Chem	CAPLUS
Sauter, F	1988	119	1427	Monatsh Chem	CAPLUS
Sell, M	1993	34	6007	Tetrahedron Lett	CAPLUS
Sugimoto, O	2001	84	1112	Helv Chim Acta	CAPLUS
Sugimoto, O	2001	57	2133	Tetrahedron	CAPLUS
Sugimoto, O	1999	40	2139	Tetrahedron Lett	CAPLUS
Sugimoto, O	1999	40	7477	Tetrahedron Lett	CAPLUS
Sugimoto, O	2002	43	3355	Tetrahedron Lett	CAPLUS
Tanji, K	1991	39	2793	Chem Pharm Bull	CAPLUS
Tilford, C	1948	70	4001	J Am Chem Soc	CAPLUS
Traynelis, V	1974	96	7289	J Am Chem Soc	CAPLUS
Trecourt, F	2000	56	1349	Tetrahedron	CAPLUS
Trecourt, F	1999	40	4339	Tetrahedron Lett	CAPLUS
Tschitschibabin, A	1928	61	547	Ber	
Xiong, H	1989	54	3247	J Org Chem	CAPLUS

- L12 ANSWER 7 OF 10 CASREACT COPYRIGHT 2005 ACS on STN
- 137:369720 CASREACT AN
- Palladium-promoted arylation of functionalized organolithium compounds via TItheir zinc derivatives
- ΑU Yus, Miguel; Gomis, Joaquin
- Departamento de Quimica Organica, Facultad de Ciencias, Universidad de CS Alicante, Alicante, 03080, Spain European Journal of Organic Chemistry (2002), (12), 1989-1995
- SO CODEN: EJOCFK; ISSN: 1434-193X
- PΒ Wiley-VCH Verlag GmbH
- DTJournal
- LA English

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Almena, J	1995	-==== 51	3351	Tetrahedron	CAPLUS
	1995	51	!		
Almena, J	!) o T	3365	Tetrahedron	CAPLUS
Anon	1999			Organozinc Reagents,	
Arnauld, T	2002	43	1081	Tetrahedron Lett	CAPLUS
Bachki, A	1998	39	7759	Tetrahedron Lett	CAPLUS
Barluenga, J	1987		425	J Chem Soc, Chem Com	CAPLUS
Barluenga, J	1988		3113	J Chem Soc, Perkin T	CAPLUS
Boudier, A	2000	39	4414	Angem Chem Int Ed	
Boudier, A	2000	112	4584	Angew Chem	
El Ali, B	1996	112	195	J Mol Catal A: Chem	CAPLUS
Erdik, E	1996			Organozinc Reagents	
Gil, J	1993	49	4923	Tetrahedron	CAPLUS
Gomez, C	1999	55	7017	Tetrahedron	CAPLUS
Gomez, C	1998	39	1397	Tetrahedron Lett	CAPLUS
Gomis, J				unpublished results	
Goosen, A	1995	6	1227	J Chem Soc, Perkin T	,
Knochel, P	1998			Metal-Catalysed Cros	
Knochel, P	1995		393	Synlett	CAPLUS

	APLUS
	APLUS
	APLUS
Najera, C 2002	
Najera, C 1997 1 67 Recent Res Devel Org CA	APLUS
Najera, C 1991 2 155 Trends Org Chem CAI	APLUS
Negishi, E 1998 Metal-Catalysed Cros	
Omae, I 1998 37 Applications of Orga	
1 1 1 - 1	APLUS
	APLUS
Ramon, D 1990 31 3763 Tetrahedron Lett CA	APLUS
Sakamoto, T 1993 563 Synthesis CA	APLUS
Schollkopf, U 1970 13/I 216 Metallorganische Ver	
	APLUS
Van Atten, M 1993 36 3985 J Med Chem CA	APLUS
Van Herwijnen, H 2001 66 2874 J Org Chem CA	APLUS
Wakefield, B 1988 Organolithium Method	
Wakefield, B 1988 108 Organolithium Method	*
	APLUS
Yus, M 1991 398 J Chem Soc, Chem Com CA	APLUS
Yus, M 1992 57 750 J Org Chem CAI	APLUS
Yus, M 2002 Latv Kim Z, in press	
	APLUS
Yus, M 2001 1197 Synlett CA	APLUS
Yus, M 2001 57 10119 Tetrahedron CA	APLUS
Yus, M 2001 57 5799 Tetrahedron CA	APLUS
	APLUS
	APLUS

- L12 ANSWER 8 OF 10 CASREACT COPYRIGHT 2005 ACS on STN
- AN 137:201213 CASREACT
- TI Oxidative magnesiation of halogenopyridines: introduction of electrophilic substituents to the pyridine moiety under the Barbier condition
- AU Sugimoto, Osamu; Yamada, Shigeru; Tanji, Ken-ichi
- CS School of Food and Nutritional Sciences, Laboratory of Organic Chemistry, University of Shizuoka, Shizuoka, 422-8526, Japan
- SO Tetrahedron Letters (2002), 43(18), 3355-3357 CODEN: TELEAY; ISSN: 0040-4039
- PB Elsevier Science Ltd.
- DT Journal
- LA English

Referenced Author	Year	VOL	PG	Referenced Work	Referenced
(RAU)	(RPY)	(RVL)	(RPG)	(RWK)	File
=======================================	+====-	+=====	+=====	+======================================	+=======
Abarbri, M	2000	65	4618	J Org Chem	CAPLUS
Abarbri, M	1999	40	7449	Tetrahedron Lett	CAPLUS
Bell, A	1987		843	Synthesis	CAPLUS
Berillon, L	1998	Ì	1359	Synlett	CAPLUS
Furukawa, N	1987	28	5845	Tetrahedron Lett	CAPLUS
Gomez, I	2000	56	4043	Tetrahedron	CAPLUS
Hannon, M	1998	39	8509	Tetrahedron Lett	CAPLUS
Kondo, Y	1994	37	1467	Heterocycles	CAPLUS
Peterson, M	1997	62	8237	J Org Chem	CAPLUS
Rieke, R	1997	53	1925	Tetrahedron	CAPLUS
Sugimoto, O	2001	57	2133	Tetrahedron	CAPLUS
Trecourt, F	2000	56	1349	Tetrahedron	CAPLUS
Trecourt, F	1999	40	4339	Tetrahedron Lett	CAPLUS

L12 ANSWER 9 OF 10 CASREACT COPYRIGHT 2005 ACS on STN AN 137:169643 CASREACT

- TI The trans-Chlorometalation of Hetero-Substituted Alkynes: A Facile Entry to Unsymmetrical Palladium YCY' (Y, Y' = NR2, PPh2, OPPh2, and SR)
 "Pincer" Complexes
- AU Ebeling, Gunter; Meneghetti, Mario R.; Rominger, Frank; Dupont, Jairton
- CS Laboratory of Molecular Catalysis Institute of Chemistry, UFRGS, Porto Alegre, 91501-970, Brazil
- SO Organometallics (2002), 21(15), 3221-3227 CODEN: ORGND7; ISSN: 0276-7333
- PB American Chemical Society
- DT Journal
- LA English

KETABLE					
Referenced Author	Year	VOL	PG	Referenced Work	Referenced
(RAU)	(RPY)	(RVL)	(RPG)	(RWK)	File
	+====-	-====	+=====	+======================================	
Albrecht, M	2001	40	3750	Angew Chem, Int Ed	CAPLUS
Albrecht, M	2001	624	271	J Organomet Chem	CAPLUS
Bedford, R	2000	24	745	New J Chem	CAPLUS
Beletskaya, I	2000	41	1075	Tetrahedron Lett	CAPLUS
Bergbreiter, D	1999	121	9531	J Am Chem Soc	CAPLUS
Brandsma, L	1981			Synthesis of Acetyle	
Dijkstra, H	2002		126	Chem Commun	CAPLUS
Dupont, J	2001	4	1917	Eur J Inorg Chem	
Dupont, J	1989		1715	J Chem Soc, Dalton T	CAPLUS
Dupont, J	1997	16	2386	Organometallics	CAPLUS
Dupont, J	1996	15	2299	Polyhedron	CAPLUS
Dyatkin, A	1998	39	3647	Tetrahedron Lett	CAPLUS
Errington, J	1980		2312	J Chem Soc, Dalton T	CAPLUS
Frisch, M	1998			Gaussian 98, Revisio	
Gruber, A	2000	2	1287	Org Lett	CAPLUS
Haenel, M	1991	124	333	Chem Ber	CAPLUS
Holton, R	1988	110	314	J Am Chem Soc	CAPLUS
Huck, W	1996	35	1213	Angew Chem, Int Ed E	CAPLUS
Klusener, P	1990	55	1311	J Org Chem	CAPLUS
Loeb, S	1993		1395	J Chem Soc, Chem Com	CAPLUS
Miyazaki, F	1999	40	7379	Tetrahedron Lett	CAPLUS
Morales-Morales, D	2000		1619	Chem Commun	CAPLUS
Moulton, C	1976		1020	J Chem Soc, Dalton T	CAPLUS
Orpen, A	1989		S1	J Chem Soc, Dalton T	CAPLUS
Portnoy, M	1993	12	4734	Organometallics	CAPLUS
Riera, X	2001		2135	Eur J Inorg Chem	CAPLUS
Rimml, H	1987	30	297	Phosphorus Sulfur	CAPLUS
Sheldrick, G	1996			SADABS	
Sheldrick, G	1997			SHELXTL V5.10	
Sonogashira, K	1975		4467	Tetrahedron Lett	CAPLUS
Steenwinkel, P	1998	4	759	Chem Eur J	CAPLUS
Steenwinkel, P	1998	4	763	Chem Eur J	CAPLUS

- L12 ANSWER 10 OF 10 CASREACT COPYRIGHT 2005 ACS on STN
- AN 137:169408 CASREACT
- TI Synthesis and Pharmacological Characterization of Novel Analogues of the Nicotinic Acetylcholine Receptor Agonist (±)-UB-165
- AU Sharples, Christopher G. V.; Karig, Gunter; Simpson, Graham L.; Spencer, James A.; Wright, Emma; Millar, Neil S.; Wonnacott, Susan; Gallagher, Timothy
- CS Department of Biology and Biochemistry, University of Bath, Bath, BA2 7AY, UK
- SO Journal of Medicinal Chemistry (2002), 45(15), 3235-3245 CODEN: JMCMAR; ISSN: 0022-2623
- PB American Chemical Society
- DT Journal
- LA English

RETABLE |Year | VOL | PG | Referenced Work Referenced Author

Referenced Author	Year	VOL	PG	Referenced Work	Referenced
(RAU)	!	(RVL)	!	(RWK)	File
=======================================	•	•		, +====================================	•
Abraham, M	1989	1	1355	J Chem Soc, Perkin T	CAPLUS
Badio, B	1994	4	440	Med Chem Res	CAPLUS
Badio, B	1994	45	563	Mol Pharmacol	CAPLUS
Beers, W	1970	228	917	Nature	CAPLUS
Brejc, K	2001	411	269	Nature	CAPLUS
Chen, D	1997	272	24024	J Biol Chem	CAPLUS
Cheng, Y	1973	22	3089	Biochem Pharmacol	
Cordero-Erausquin, M	2000	21	211	Trends Pharmacol Sci	CAPLUS
Dart, M	2000	74	115	Pharm Acta Helv	CAPLUS
Davies, A	1999	38	679	Neuropharmacology	CAPLUS
Drisdel, R	2000	20	133	J Neurosci	CAPLUS
Dukat, M	1996	31	875	Eur J Med Chem	CAPLUS
Dukat, M	1993	4	131	Med Chem Res	
Elgoyhen, A	2001	98	3501	Proc Natl Acad Sci U	CAPLUS
Glennon, R	1994	6	465	Med Chem Res	
Gohlke, H	2002	45	1064	J Med Chem	CAPLUS
Holladay, M	1997	40	4169	J Med Chem	CAPLUS
Jones, S	1999	22	555	Trends Neurosci	CAPLUS
Lewis, T	1997	505	299	J Physiol	CAPLUS
Lukas, R	1999	51	397	Pharmacol Rev	CAPLUS
Macallan, D	1988	226	357	FEBS Lett	CAPLUS
Manallack, D	1996	2	177	Principles in QSAR a	
Marks, M	1996	277	1383	J Pharmacol Exp Ther	CAPLUS
Nobeli, I	1997	18	2060	J Comput Chem	CAPLUS
Role, L	1996	16	1077	Neuron	CAPLUS
Seerden, J	1998	6	2103	Biol Med Chem	CAPLUS
Seguela, P	1993	13	596	J Neurosci	CAPLUS
Sharples, C	2000	20	2783	J Neurosci	CAPLUS
Sheridan, R	1986	29	899	J Med Chem	CAPLUS
Sivilotti, L	1997	500	123	J Physiol	CAPLUS
Spang, J	2000	7	545	Chem Biol	CAPLUS
Spencer, J	2001	3	835	Org Lett	
Swanson, K	1986	29	250	Mol Pharmacol	CAPLUS
Tonder, J	2001	8	651	Curr Med Chem	CAPLUS
Tonder, T	2001	15	247	J Comput-Aided Mol D	
Tonder, T	1999	42	4970	J Med Chem	
Wang, F	1998	273	28721	J Biol Chem	CAPLUS
Wright, E	1997	7	2867	Bioorg Med Chem Lett	!
Zoli, M	1998	18	4461	J Neurosci	CAPLUS

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L13 ANSWER 1 OF 22 CASREACT COPYRIGHT 2005 ACS on STN
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FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1270535	A2	20030102	EP 2002-12763	20020608

^{138:73075} CASREACT ΑN

Process for the preparation of substituted aromatics via lithiation and TIelectrophilic alkylation of haloaromatics

IN Meudt, Andreas; Erbes, Michael; Forstinger, Klaus

PΑ Clariant G.m.b.H., Germany

SQ Eur. Pat. Appl., 11 pp. CODEN: EPXXDW

DTPatent

German LA

EP 1270535 **A3** 20040218 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR Α1 20030109 DE 2001-10155209 20011109 US 2003018192 **A**1 20030123 US 2002-171444 20020613 US 6657093 B2 20031202 JP 2003073308 **A2** 20030312 JP 2002-180218 20020620 US 2004073032 A1 20040415 US 2003-677412 20031002 PRAI DE 2001-10129765 20010620 DE 2001-10155209 20011109 US 2002-171444 20020613 os MARPAT 138:73075 GΙ

AB A process for the preparation of compds. I [R1 - R5 = H, (un)substituted alkyl, alkoxy, etc.; R6 = aryl, alkyl] via the lithiation and electrophilic alkylation of haloaroms. I [R1 - R5 = H, (un)substituted alkyl, alkoxy, etc.; R6 = Cl, F] is disclosed. For example, a mixture of p-chlorotoluene (1 mol) and acetonitrile (1.1 mol) was added to a suspension of lithium (2.0 mol) in THF (350 mL) at -50°C. After stirring for 7.5 h, the reaction was quenched with water, the pH adjusted to 2.0 and the mixture heated at reflux for 2 h. The reaction was cooled, extracted with petroleum ether and the combined organic layers were distilled to provide acetophenone II in 99% yield. The preparation of approx. 12-specific examples of compds. I are disclosed.

RX(1) OF 13 A + B ===> C

RX(1) RCT A 106-43-4, B 75-05-8

STAGE(1) RGT D **7439-93-2** Li SOL 109-99-9 THF STAGE(2)

RGT E 7647-01-0 HCl SOL 109-99-9 THF, 7732-18-5 Water PRO C 122-00-9

- L13 ANSWER 2 OF 22 CASREACT COPYRIGHT 2005 ACS on STN
- AN 135:331217 CASREACT
- TI Negishi cross-coupling with functionalized organozinc compounds prepared by lithium-zinc transmetallation
- AU Yus, M.; Gomis, J.
- CS Facultad de Ciencias, Departamento de Quimica Organica, Universidad de Alicante, Alicante, E-03080, Spain
- SO Tetrahedron Letters (2001), 42(33), 5721-5724 CODEN: TELEAY; ISSN: 0040-4039
- PB Elsevier Science Ltd.
- DT Journal
- LA English
- GI

AB The reaction of some functionalized organolithium compds. I (n = 0, 1, 2, m = 1, 2) with an equimol. amount of zinc bromide followed by reaction with an aryl or alkenyl bromide in the presence of a catalytic amount of Pd(PPh3)4 or Pd(PPh3)2(OAc)2 (5 mol*) under THF reflux overnight gave the expected cross-coupling compds. These arylation or alkenylation processes, which work also with iodinated substrates, are not possible in the absence of the zinc or palladium compds. under the same reaction conditions.

RX(1) OF 16 A + B ===> C

C YIELD 83%

RX(1) RCT A 493-05-0

STAGE(1)

RGT D **7439-93-2** Li CAT 1625-91-8 (p-t-BuC6H4)2

SOL 109-99-9 THF

```
STAGE (2)
```

RGT E 7699-45-8 ZnBr2

SOL 109-99-9 THF

STAGE (3)

RCT B 591-50-4

CAT 14221-01-3 Pd (PPh3) 4

SOL 109-99-9 THF

STAGE (4)

RGT F 7647-01-0 HCl

SOL 7732-18-5 Water

PRO C 161950-67-0

NTE Negishi cross-coupling, regioselective

RETABLE					
Referenced Author	Year	VOL	PG	Referenced Work	Referenced
(RAU)	(RPY)	(RVL)	(RPG)	(RWK)	File
=======================================	+=====-	-====-	}=====	+============	-=======
Almena, J	1995	51	3351	Tetrahedron	CAPLUS
Almena, J	1995	51	3365	Tetrahedron	CAPLUS
Alonso, F	1997	1	397	Recent Res Devel Org	CAPLUS
Bachki, A	1998	39	7759	Tetrahedron Lett	CAPLUS
Blomberg, C	1993			The Barbier Reaction	
Boudier, A	2000	39	4414	Angew Chem, Int Ed	
Erdik, E	1996			Organozinc Reagents	
Gomez, C	1999	55	7017	Tetrahedron	CAPLUS
Gomez, C	1998	39	1397	Tetrahedron Lett	CAPLUS
Knochel, P	1993	93	2117	Chem Rev	CAPLUS
Knochel, P	1998			Metal-catalysed Cros	
Knochel, P	1999			Organozinc Reagents,	
Knochel, P	1995		393	Synlett	CAPLUS
Knochel, P	1998	54	8275	Tetrahedron	CAPLUS
Najera, C	1997	1	67	Recent Res Devel Org	CAPLUS
Najera, C	1991	2	155	Trends Org Chem	CAPLUS
Negishi, E	1998			Metal-catalysed Cros	
Ramon, D	2000		225	Eur J Org Chem	CAPLUS
Yus, M	1996		155	Chem Soc Rev	CAPLUS
Yus, M	1991		398	J Chem Soc, Chem Com	CAPLUS
Yus, M	1997	17	73	Rev Heteroatom Chem	CAPLUS
Yus, M				Synlett, in press	
Yus, M	2001	57	4411	Tetrahedron	CAPLUS
Yus, M	2001	57	5799	Tetrahedron	CAPLUS
Yus, M	2001	42	3455	Tetrahedron Lett	CAPLUS

- L13 ANSWER 3 OF 22 CASREACT COPYRIGHT 2005 ACS on STN
- AN 135:107094 CASREACT
- TI Cyclopropyl building blocks of organic synthesis. Part 70. 2-(Bicyclopropylidenyl) - and 2-(trans-2'-cyclopropylcyclopropyl)-4,4,5,5-tetramethyl-1,3-dioxa-2-borolane and their palladium-catalyzed cross-coupling reactions
- AU Lohr, Sandra; De Meijere, Armin
- CS Institut fur Organische Chemie, Georg-August-Universitat Gottingen, Gottingen, 37077, Germany
- SO Synlett (2001), (4), 489-492 CODEN: SYNLES; ISSN: 0936-5214
- PB Georg Thieme Verlag
- DT Journal
- LA English
- AB The title bicyclopropylidenylboronate (I) was prepared in 76% yield from lithiated bicyclopropylidene and 2-isopropyloxy-4,4,5,5-tetramethyl-1,3-dioxa-2-borolane. Birch reduction of I furnished 2-(trans-2'-cyclopropylcyclopropyl)-4,4,5,5-tetramethyl-1,3-dioxa-2-borolane in 79%

yield. Under Pd catalysis, the latter was successfully coupled with a variety of aryl and alkenyl halides to give the corresponding (2'-cyclopropylcyclopropyl)-substituted arenes (52-75% yield) and alkenes (48-59% yield), resp. Two- and even 3-fold couplings of I with 1,2-C6H4Br2 and 1,3,5-C6H3Br3 were also successful. Thus, trans-3-(2'-cyclopropylcyclopropyl)acrylate was easily obtained.

RX(2) OF 55 ...C ===> H...

RX(2) RCT C 350031-02-6

STAGE(1)

RGT I **7439-93-2** Li SOL 7664-41-7 NH3

STAGE(2)

SOL 67-56-1 MeOH

STAGE(3)

RGT J 7647-01-0 HCl

SOL 7732-18-5 Water

PRO H 350031-03-7

NTE Burch redn., stereoselective

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KEIABUE					
Referenced Author	Year	VOL	PG	Referenced Work	Referenced
(RAU)	(RPY)	(RVL)	(RPG)	(RWK)	File
=======================================	+=====-	}=====	+======	, +====================================	, }=========
Charette, A	1996	61	8718	J Org Chem	CAPLUS
Charette, A	1997	38	2809	Tetrahedron Lett	CAPLUS
Chen, H	2000	65	4444	J Org Chem	CAPLUS
de Meijere, A	2000		3809	Eur J Org Chem	CAPLUS
de Meijere, A	1992	58	502	J Org Chem	
de Meijere, A	2000	78	142	Org Synth	
de Meijere, A	1993		681	Synthesis	CAPLUS
de Meijere, A	2000	207	90	Top Curr Chem	
Falck, J	1996	118	6096	J Am Chem Soc	CAPLUS
Foerstner, J	1998		239	Chem Commun	CAPLUS
Hildebrand, J	1996		893	Synlett	CAPLUS
Kazanskii, B	1958		1280	Izvest Akad Nauk SSR	CAPLUS
Kazanskii, B	1958		1238	engl trans	
Lohr, S	2000		2979	Eur J Org Chem	CAPLUS
Miyazawa, K	2001			Mol Cryst Liq Cryst,	
Notzel, M	2001			Eur J Org Chem, in p	
Smith, L	1951	73	3840	J Am Chem Soc	CAPLUS
Sonderquist, J	2000	41	4251	Tetrahedron Lett	
Suzuki, A	1998		49	Metal-catalyzed Cros	CAPLUS
Suzuki, A	1999		147	Perspectives in Orga	CAPLUS
Suzuki, A	1999		441	Transition Metal Cat	

Theberge, C	1996	61	8792	J Org Chem	CAPLUS
Theberge, C	1995	36	5495	Tetrahedron Lett	CAPLUS
Torrado, A	1995		285	Synthesis	CAPLUS
Torrado, A	1995	51	2435	Tetrahedron	CAPLUS
Verbicky, C	2000	41	8723	Tetrahedron Lett	CAPLUS
Wang, X	1996	1	2663	J Chem Soc Perkin Tr	CAPLUS
Yao, M	2000		1095	Synthesis	CAPLUS
Yao, M	2000	41	9083	Tetrahedron Lett	CAPLUS
Zhang, H	1996	37	1043	Tetrahedron Lett	CAPLUS
Zhou, S	1998	36	3055	Angew Chem Int Ed En	
Zhou, S	1997		198	Synlett	
Zhou, S	2000	41	3951	Tetrahedron Lett	CAPLUS

L13 ANSWER 4 OF 22 CASREACT COPYRIGHT 2005 ACS on STN

AN 134:366848 CASREACT

- TI Palladium-catalyzed reactions, 3. Stereoselective palladium-catalyzed C-C coupling reactions with a diazabicyclo[2.2.1]heptene
- AU Storsberg, Jorg; Nandakumar, Mecheril V.; Sankaranarayanan, Sivaraman; Kaufmann, Dieter E.
- CS Institut fur Organische Chemie der Technischen Universitat, Clausthal-Zellerfeld, 38678, Germany
- SO Advanced Synthesis & Catalysis (2001), 343(2), 177-180 CODEN: ASCAF7; ISSN: 1615-4150
- PB Wiley-VCH Verlag GmbH
- DT Journal
- LA English

GI

R¹N R²

AB Palladium-catalyzed reductive Heck-type reaction of 2,3-diazabicyclic alkene I (R1 = CO2Et) with R2X (R2 = Ph, 3-pyridyl, etc.; X = I, Br) gave exo-products II. N-N bond cleavage of these products afforded stereoselectively cis-1,3-diaminocyclopentene derivs.

II

RX(3) OF 18 2 A + 2 M ===> N + O...

YIELD 77%

YIELD 8%

RX (3) RCT A 14011-60-0, M 1120-90-7

RGT E 121-44-8 Et3N, F 64-18-6 HCO2H

PRO N 340153-29-9, O 340153-39-1

CAT 3375-31-3 Pd(OAc)2, 603-32-7 Ph3As

SOL 68-12-2 DMF

NTE Heck-type reaction; catalyst generated in situ; stereoselective

RETABLE

Referenced Author	Year	VOL	PG	Referenced Work	Referenced
(RAU)	(RPY)			(RWK)	File
(RAO)	(RFI)	(KVII)	(RPG)	(((((((((((((((((((1
Catellani, M	1996	507 ·	157	J Organomet Chem	CAPLUS
Catellani, M	2000	593-5	240	J Organomet Chem	CAPLUS
Catellani, M	1982	23	4517	Tetrahedron Lett	CAPLUS
Clayton, S	1993	34	7493	Tetrahedron Lett	CAPLUS
Crisp, G	1998	27	427	Chem Soc Rev	CAPLUS
de Meijere, A	1994	106	2473	Angew Chem	CAPLUS
de Meijere, A	1994	33	2379	Angew Chem Inst Ed E	
Diels, O	1925	443	242	Justus Liebig Ann Ch	CAPLUS
Forrest, A	1984	1	1981	J Chem Soc Perkin Tr	
Grabowski, S	1996	37	7951	Tetrahedron Lett	CAPLUS
Hartwig, J	1999	64	5575	J Org Chem	CAPLUS
Larock, R	1990	62	653	Pure Appl Chem	CAPLUS
Mellor, J	1984	1	2927	J Chem Sco Perkin Tr	
Nakamura, K	1999		549	Synlett	CAPLUS
Namyslo, J	1997	130	1327	Chem-Ber/Recueil	CAPLUS
Namyslo, J	1999		114	Synlett	CAPLUS
Namyslo, J	1999		804	Synlett	CAPLUS
Otten, A	1998		1997	Eur J Chem	CAPLUS
Tsuji, J	1995			Palladium Reagents a	
Wallberg, A	2000	56	8533	Tetrahedron	CAPLUS
Yang, B	1999	1	35	Org Lett	CAPLUS
Yin, J	2000	2	1101	Org Lett	CAPLUS

ANSWER 5 OF 22 CASREACT COPYRIGHT 2005 ACS on STN L13

134:207699 CASREACT AN

TI Regioselectivity of arylation of 2,3'-biquinolyl dianion

AU Aksenov, A. V.; Aksenova, I. V.; Borodaev, I. V.; Smushkevich, Yu. I.

Organic Chemistry, Stavropol State University, Stavropol, 355009, Russia CS

Proceedings of ECSOC-1: The First International Electronic Conference on SO Synthetic Organic Chemistry; [and] Proceedings of ECSOC-2: The Second International Electronic Conference on Synthetic Organic Chemistry, Sept. 1-30, 1997, 1998 (1999), Meeting Date 1997-1998, 415-421.

Editor(s): Lin, Shu-Kun; Pombo-Villar, Esteban. Publisher: Molecular Diversity Preservation International, Basel, Switz.

CODEN: 69ASBO

DT Conference; (computer optical disk) LA English

AB Arylation of the dianion of 2,3'-biquinolyl with aryl- and hetaryl halides forms products at the 4'-position, which on treatment with alkyl halides or water yield 1'-alkyl-1',4'-dihydro-2,3'-biquinolyls or 4'-aryl-1',4'-dihydro-2,3'-biquinolyls, resp. Oxidation of the latter leads to 4'-aryl-2,3'-biquinolyls. The cation dependence of the arylation is shown.

$$RX(1)$$
 OF 18 A + B ===> C...

C YIELD 78%

RX(1) RCT A 612-81-7

STAGE(1)

RGT D **7439~93-2** Li SOL 109-99-9 THF

STAGE(2)

RCT B 108-86-1 SOL 109-99-9 THF

STAGE(3)

SOL 7732-18-5 Water

PRO C 206009-40-7

NTE regioselective

Referenced Author	(RPY) (RV	OL PG	Referenced Work	Referenced
(RAU)		VL) (RPG)	(RWK)	File
Aksenov, A Banerji, A Eisch, J Holy, N	1996 1994 1963 1974	1391 9079 707	Khim Geterotsikl Soe Tetrahedron J Org Chem Chem Rev	CAPLUS CAPLUS CAPLUS CAPLUS

AN 134:193217 CASREACT

ΤI Process for preparing biaryl compounds

IN Miller, Joseph A.; Farrell, Robert P.

PA Catalytica, Inc., USA

SO U.S., 14 pp.

CODEN: USXXAM

DT Patent

English LA

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
		- -			
ΡI	US 6194599	B1	20010227	US 1997-825792	19970408
	US 5922898	A	19990713	US 1997-966335	19971107

PRAI US 1997-825792 19970408

MARPAT 134:193217 os

AB The title process comprises reacting an arylzinc reagent with an aryl chloride in the presence of a Ni or a Pd catalyst. Thus, PhLi was treated with ZnCl and the product condensed with 4-ClC6H4CN in the presence of a prepared Ni catalyst to give 81% 4-PhC6H4CN.

RX(6) OF 9 U V

RX (6) RCT U 100-58-3

STAGE(1)

RGT D 7646-85-7 ZnCl2 SOL 109-99-9 THF

STAGE(2)

RCT V 6298-19-7

CAT 14264-16-5 NiCl2(PPh3)2

SOL 109-99-9 THF

STAGE(3)

RGT X 7647-01-0 HCl

SOL 7732-18-5 Water, 141-78-6 AcOEt

PRO W 101601-80-3

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced
Anon Anon Anon Beller Bousset Bringmann Carini	1991 1991 1996 1996 1994 1990 1992	29	977	EP 0470794 A1 EP 0470795 A1 JP 08231454 US 5559277 US 5288895 Angew, Chem, Int Ed US 5128355	CAPLUS CAPLUS CAPLUS CAPLUS CAPLUS
Carini	1991	34	2525	J Med, Chem	CAPLUS

Clough	1976	41	2252	J Org Chem	CAPLUS
Colon	1981		İ	US 4263466	CAPLUS
Colon	1986	51	2627	J Org Chem	CAPLUS
Corley	1993			US 5237116	CAPLUS
Grushin	1994	94	1047	Chem Rev	CAPLUS
Himmler	1991	1		US 4990647	CAPLUS
Lo	1992	1		US 5130439	CAPLUS
Mantlo	1991	34	2919	J Med Chem	CAPLUS
Meyers	1978	43	1372	J Org Chem	CAPLUS
Negishi	1977	42	1821	J Org Chem	CAPLUS
Percec	1995	60	6895	J Org Chem	CAPLUS
Pridgen	1982	47	4319	J Org Chem	CAPLUS
Puckette	1990	}	1	US 4912276	CAPLUS
Rosen	1994			US 5364943	CAPLUS
Sainsbury	1980	36	3327	Tetrahedron Report N	CAPLUS
Silbille	1992		283	J Chem Soc Chem Comm	
Sletzinger	1986			US 4620025	CAPLUS
Tamao	1976	49	1958	Bull Chem Soc Japan	CAPLUS
Zembayashi	1977		4089	Tetrahedron Letters	CAPLUS
Zhu	1991	56	1445	J Org Chem	CAPLUS

- L13 ANSWER 7 OF 22 CASREACT COPYRIGHT 2005 ACS on STN
- AN 133:193124 CASREACT
- TI Syntheses in the nitrogen π -deficient heterocycles series using a Barbier type reaction under sonication. Diazines. Part 29
- AU Lepretre, Anne; Turck, Alain; Ple, Nelly; Queguiner, Guy
- CS IRCOF, Laboratoire de Chimie Organique Fine et Heterocyclique, UPRES-A 6014, Mont St Aignan, 76131, Fr.
- SO Tetrahedron (2000), 56(23), 3709-3715 CODEN: TETRAB; ISSN: 0040-4020
- PB Elsevier Science Ltd.
- DT Journal
- LA English
- AB Barbier type reaction with lithium metal has been tested under sonication on pyridines, a cinnoline, and on various diazines. This very convenient method allows a very fast and smooth functionalization of these heterocycles.

RX(1) OF 27 A + B ===> C

C YIELD 55% RX(1) RCT A 4595-59-9, B 100-52-7

STAGE(1)

RGT D **7439-93-2** Li SOL 109-99-9 THF

STAGE(2)

SOL 64-17-5 EtOH

STAGE(3)

SOL 7732-18-5 Water

STAGE (4)

SOL 141-78-6 AcOEt

PRO C 126230-69-1

NTE UNTRSOUND

RETABLI

RETABLE					
Referenced Author	Year	•	PG	Referenced Work	Referenced
(RAU)	(RPY)	(RVL)	(RPG)	(RWK)	File
	:	+====-·	+=====	+======================================	
Arukwe, J	1989	ļ	255	J Chem Soc, Perkin T	CAPLUS
Barbier, P	1899	128	100	C R Acad Sci Paris	
Cai, D	1996	35	2537	Tetrahedron Lett	
Ciba-Geigy, AG	1974			FR 2218101	CAPLUS
Ciba-Geigy, AG	1976			DE 2406930	CAPLUS
Coad, P	1963	28	218	J Org Chem	CAPLUS
De Souza-Barboza, J	1988	53	1212	J Org Chem	CAPLUS
Frissen, A	1989	45	5611	Tetrahedron	CAPLUS
Furneaux, R	1997	53	2915	Tetrahedron	CAPLUS
Gilman, H	1946	68	103	J Am Chem Soc	CAPLUS
Gilman, H	1951	16	1485	J Org Chem	CAPLUS
Gilman, H	1951	16	1788	J Org Chem	CAPLUS
Godard, A	1995	40	1055	Heterocycles	CAPLUS
Gronowitz, S	1965	19	1741	Acta Chem Scand	CAPLUS
Gros, P	1997	İ	3071	J Chem Soc, Perkin T	CAPLUS
Gu, Y	1996	37	2565	Tetrahedron Lett	CAPLUS
Heinisch, G	1996	43	151	Heterocycles	CAPLUS
Heinisch, G	1993	30	1685	J Heterocyclic Chem	CAPLUS
Hetrz, H	1969	6	239	J Heterocyclic Chem	
Hirschberg, A	1965	2	209	J Heterocyclic Chem	CAPLUS
Jixiang, C	1992	22	683	Synthetic Commun	
Lepretre, A	2000	56	265	Tetrahedron	CAPLUS
Luche, J	1998			Grenoble Sciences, S	
Luche, J	1980	102	7926	J Am Chem Soc	CAPLUS
Maercker, A	1987	26	972	Angew Chem, Int Ed E	
Majeed, A	1989	45	993	Tetrahedron	CAPLUS
Mallet, M	1990	382	319	J Organomet Chem	CAPLUS
Mallet, M	1986	42	2253	Tetrahedron	CAPLUS
Ndzi, B	1990			PhD Thesis, Universi	
Newcome, G	1980	186	147	J Organomet Chem	
Parham, W	1977	42	257	J Org Chem	CAPLUS
Parkanyi, C	1988	1	342	J Organomet Chem	
Peterson, M	1997	62	8237	J Org Chem	CAPLUS
Ple, N	1995	60	3781	J Org Chem	CAPLUS
Ple, N	1998	54	9701	Tetrahedron	CAPLUS
Queguiner, G	1992	52	187	Adv Heterocycl Chem	
Queguiner, G	1996	105	701	Bull Soc Chim Belg	CAPLUS
Rho, T	1994	24	253	Synthetic Commun	CAPLUS
Rosseels, G	1966	75	5	Bull Soc Chim Belges	CAPLUS
Sandosham, J	1988		455	Acta Chem Scand, Ser	CAPLUS
Shimazaki, M	1991	32 .	937	Heterocycles	CAPLUS

Shimura, A	1999	3	495	Synthesis	
Taylor, H	1987	30	1359	J Med Chem	CAPLUS
Trecourt, F	2000	56	1349	Tetrahedron	CAPLUS
Turck, A	1994	37	2149	Heterocycles	CAPLUS
Turck, A	1997	34	621	J Heterocyclic Chem	CAPLUS
Turck, A	1988	l	881	Synthesis	CAPLUS
Turck, A	1995	51	13045	Tetrahedron	CAPLUS
Wibaut, J	1955	74	1003	Recl Trav Chim Pays-	CAPLUS

L13 ANSWER 8 OF 22 CASREACT COPYRIGHT 2005 ACS on STN

AN 131:336801 CASREACT

TI Application of Stille coupling to the preparation of arylated phthalonitriles and phthalocyanines

AU Aranyos, Viviane; Castano, Ana M.; Grennberg, Helena

CS Department of Organic Chemistry, Uppsala University, Uppsala, 751 21, Swed.

SO Acta Chemica Scandinavica (1999), 53(9), 714-720 CODEN: ACHSE7; ISSN: 0904-213X

PB Munksgaard International Publishers Ltd.

DT Journal

LA English

AB 4-Phenylphthalonitrile, 4-(2,5-dimethoxyphenyl)phthalonitrile (I), and 2-(3,4-dicyanophenyl)-4-methylpyridine have been prepared in good yields from 4-iodophthalonitrile, the synthesis of which is also discussed, using the Stille coupling method. Such phthalonitriles are precursors of phthalocyanines with the possibility of biphenyl-like orientation of a peripheral substituent with respect to the macrocycle ring plane. As an example, I was used in the preparation of tetrakis(dimethoxyphenyl)phthalocyani ne (II). Both II and the corresponding zinc(II) complex show good solubility in nonpolar solvents such as dichloromethane.

RX(12) OF 102 ...Z ===> AH

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

RX(12) RCT Z 249557-43-5

STAGE (1)

RGT AI **7439-93-2** Li SOL 71-36-3 BuOH

STAGE (2)

RGT AJ 64-19-7 AcOH PRO AH 249622-84-2

RETABLE

Referenced Author | Year | VOL | PG | Referenced Work | Referenced (RAU) | (RPY) | (RVL) | (RPG) | (RWK) | File

	+=====	+= = ===	+=====	+======================================	+=====================================
Anderson, S	1979	1280	571	Nature	CAPLUS
Badger, G	1964	17	1028	Aust J Chem	CAPLUS
Beletskaya, I	1983	250	551	J Organomet Chem	CAPLUS
Berg, K	1990	230	331	Doctoral thesis Norw	!
Berg, K	1990			Doctoral thesis Norw	!
Betzemeier, B	1997	36	2623	Angew Chem Int Ed En	!
Bossard, G	1995	34	1524	Inorg Chem	CAPLUS
Brach, P	1970	3 4 7	1403	J Heterocycl Chem	CAPLUS
Brewis, M	1998	<i>'</i>	969	J Chem Soc Chem Comm	!
Cammidge, A	1997	1	303 77	J Porphyrins Phthalo	
Cardenas, D	1996	1	916	Synlett	CAPLUS
Clarkson, G	1995		1817	· -	
•	1993	 58	101 / 5983	J Chem Soc Perkin Tr	
DiMagno, S	!	100	!	J Org Chem	CAPLUS
Ellis, G	1987		779	Chem Rev	CAPLUS
Engelkamp, H	1998	60	979	J Chem Soc Chem Comm	
Farina, V	1996	68	73	Pure Appl Chem	CAPLUS
Friedman, L	1961	2	2522	J Org Chem	G3 D7 11G
Hagfeldt, A	1995	95	49	Chem Rev	CAPLUS
Hall, T	1982	6	655	Can J Chem	
Hall, T	1982	6	653	Nouv J Chim	CAPLUS
Idelson, E	1973	!		US 3857855	CAPLUS
Kalinin, V	1992		413	Synthesis	CAPLUS
Lever, A	1988	11	1	Strem Chem	
Leznoff, C	1989	49	279	Photochem Photobiol	CAPLUS
Leznoff, C	1989	1	!	Phthalocyanines - Pr	
Leznoff, C	1993	2	ļ	Phthalocyanines - Pr	
Leznoff, C	1993	3	!	Phthalocyanines - Pr	
Leznoff, C	1997	4	!	Phthalocyanines - Pr	
Malm, J	1992	33	2199	Tetrahedron Lett	CAPLUS
Marcuccio, S	1985	65	3057	Can J Chem	
Mervis, S	1993	6	1003	Kirk-Othmer Encyclop	
Mitchell, T	1992		803	Synthesis	CAPLUS
Nazeeruddin, M	1998		719	J Chem Soc Chem Comm	CAPLUS
Negishi, E	1982	15	340	Acc Chem Res	CAPLUS
ORegan, B	1991	353	737	Nature	CAPLUS
Piet, D				to be published in J	
Piet, D				to be published in J	
Polley, R	1995	60	8278	J Org Chem	CAPLUS
Potts, K	1966	31	251	J Org Chem	CAPLUS
Richter, B	1990	112	8064	J Am Chem Soc	
Stille, J	1986	25	508	Angew Chem Int Ed En	
Tomoda, H	1980		1277	Chem Lett	CAPLUS
van Nostrum, C	1995	1	171	Chem Eur J	CAPLUS
van Nostrum, C	1996		2385	J Chem Soc Chem Comm	CAPLUS
Young, J	1990	9	4239	Beilstein	
Young, J	1990	9	458	Beilstein	
Young, J	1990	55	2157	J Org Chem	
				·	

L13 ANSWER 9 OF 22 CASREACT COPYRIGHT 2005 ACS on STN

AN 131:199610 CASREACT

TI Synthesis of dinucleating phenanthroline-based ligands

AU Lam, Fung; Feng, MaoQi; Chan, Kin Shing

CS Departments of Chemistry, The Chinese University of Hong Kong, Shatin, Hong Kong

SO Tetrahedron (1999), 55(28), 8377-8384 CODEN: TETRAB; ISSN: 0040-4020

PB Elsevier Science Ltd.

DT Journal

LA English

AB Phenolic bridged dinucleating phenanthroline-pyridine, phenanthroline-phosphine, phenanthroline-alc., and phenanthroline-imine

ligands have been synthesized from 1,10-phenanthroline via Stille and Suzuki cross couplings.

RX(1) OF 29 2 A + B ===> C...

2 A

$$\begin{array}{c} H \\ \star \\ \end{array}$$

C YIELD 80%

RX(1) RCT A 41280-65-3

STAGE(1)

RGT D **7439-93-2** Li SOL 60-29-7 Et20

STAGE(2)

RCT B 66-71-7 SOL 108-88-3 PhMe

STAGE(3)

SOL 7732-18-5 Water PRO C 171002-41-8

RETA	T.T.
KELL	чопс

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Atkins, A	1996		457	J Chem Soc Chem Comm	
Collman, J	1995	117	692	J Am Chem Soc	CAPLUS
Dietrich-Buchecker, C	1982	23	5291	Tetrahedron Lett	CAPLUS
Hansen, K	1996	118	10924	J Am Chem Soc	CAPLUS
Judice, J	1993		1323	J Chem Soc Chem Comm	CAPLUS
Jutzi, P	1983	246	163	J Organomet Chem	CAPLUS
Karlin, K	1993			Bioinorganic chemist	
Lam, F	1995	36	6261	Tetrahedron Lett	CAPLUS
Larrow, J	1994	59	1939	J Org Chem	CAPLUS
Masood, M	1991		111	J Chem Soc Dalton Tr	CAPLUS
Matthews, R	1996	35	2253	Angew Chem Int Ed En	CAPLUS
McCollum, D	1998	270	13	Inorg Chim Acta	CAPLUS
McCollum, D	1996	118	1365	J Am Chem Soc	CAPLUS
McOmie, J	1968	24	2289	Tetrahedron	CAPLUS
Milani, B	1997	16	5064	Organometallics	CAPLUS
Miyaura, N	1995	95	2457	Chem Rev	CAPLUS
Miyaura, N	1981	11	513	Synth Commun	CAPLUS
Nishibayashi, Y	1998	279	540	Science	CAPLUS
Ogawa, S	1974		976	J Chem Soc Perkin Tr	CAPLUS
Rosenwald, R	1952	74	4602	J Am Chem Soc	CAPLUS
Stille, J	1986	25	508	Angew Chem Int Ed En	
Tunney, S	1987	52 .	748	J Org Chem	CAPLUS
van Veggel, F	1994	94	279	Chem Rev	CAPLUS
Wang, K	1997	119	1470	J Am Chem Soc	CAPLUS
Wolfe, J	1997	119	6054	J Am Chem Soc	CAPLUS

- L13 ANSWER 10 OF 22 CASREACT COPYRIGHT 2005 ACS on STN
- AN 131:129885 CASREACT
- TI Regioselectivity of arylation of 2,3'-biquinolyl dianion
- AU Aksenov, A. V.; Aksenova, I. V.; Borovlev, I. V.; Smushkevich, Yu. I.
- CS Chair of Organic Chemistry, Stavropol State University, Stavropol, 355009, Russia
- SO Molecules [Electronic Publication] (1999), 4(5), 126-134 CODEN: MOLEFW; ISSN: 1420-3049
 - URL: http://mdpi.org/molecules/papers/40500126.pdf
- PB Molecular Diversity Preservation International
- DT Journal; (online computer file)
- LA English

The dianion of 2,3'-biquinolyl undergoes arylation at the 4'-position with aryl- and hetaryl halides; the intermediates are treated with alkyl halides or water to yield 1'-alkyl-1',4'-dihydro-2,3'-biquinolyls or 4'-aryl-1',4'-dihydro-2,3'-biquinolyls I (Ar = Ph, 1-naphthyl, 1-methyl-2-benzimidazolyl, 1-isopropyl-2-benzimidazolyl; R = H, Me, CH2Ph). The oxidation of the latter leads to 4'-aryl-2,3'-biquinolyls II. The cation dependence of the arylation is shown.

RX(6) OF 18 P + Q + R ===> S

Ι

S YIELD 75%

RX(6) RCT P 612-81-7

STAGE(1)

RGT T 7439-93-2 Li SOL 109-99-9 THF

STAGE(2)

RCT Q 108-86-1 SOL 109-99-9 THF

STAGE(3)

RCT R 74-88-4 SOL 109-99-9 THF

STAGE (4)

RGT G 7732-18-5 Water

PRO S 206009-45-2 NTE regioselective

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)		Referenced Work (RWK)	Referenced File
=======================================	+====-	+=====	+=====	+==========	+========
Aksenov, A	1996	10	1391	Khim Geterotsikl Soe	
Banerji, A	1994	30	9079	Tetrahedron	
Eisch, J	1963	28	707	J Org Chem	CAPLUS
Holy, N	1974	2	243	Chem Rev	İ

L13 ANSWER 11 OF 22 CASREACT COPYRIGHT 2005 ACS on STN

AN 124:289060 CASREACT

TI Total Synthesis of (-)-Virginiamycin M2 Using Second-Generation Vinylogous Urethane Chemistry

AU Schlessinger, R. H.; Li, Yu-Jang

CS Department of Chemistry, University of Rochester, Rochester, NY, 14627,

SO Journal of the American Chemical Society (1996), 118(13), 3301-2 CODEN: JACSAT; ISSN: 0002-7863

PB American Chemical Society

DT Journal

LA English

GI

AB A total synthesis of the title compound I has been achieved for the first time in 24 steps and 2.3% overall yield.

I

RX(4) OF 255 ...G ===> J...

RX(4) RCT G 175551-60-7 RGT N 7439-93-2 Li, O 75-65-0 t-BuOH PRO J 175551-61-8 SOL 7664-41-7 NH3, 109-99-9 THF NTE stereoselective

L13 ANSWER 12 OF 22 CASREACT COPYRIGHT 2005 ACS on STN

AN 124:8902 CASREACT

TI Synthesis of acyclic dinucleating phenanthroline-pyridine and phenanthroline-phosphine ligands

AU Lam, Fung; Chan, Kin Shing; Liu, Bang-Ji

CS Dep. Chem., Chinese Univ. Hong Kong, Shatin, Hong Kong

SO Tetrahedron Letters (1995), 36(35), 6261-2 CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier

DT Journal

LA English

GΙ

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The novel phenolic bridged dinucleating phenanthroline-pyridine I and phenanthroline-phosphine II ligands have been synthesized from 1,10-phenanthroline.

RX(3) OF 27 ...2 F + H ===> I...

2 F

I YIELD 80%

RX(3) RCT F 41280-65-3

STAGE(1)

RGT J **7439-93-2** Li SOL 60-29-7 Et20

STAGE(2)

RCT H 66-71-7 SOL 108-88-3 PhMe

STAGE(3)

SOL 7732-18-5 Water

STAGE (4)

RGT K 1313-13-9 MnO2 SOL 75-09-2 CH2Cl2

PRO I 171002-41-8

- L13 ANSWER 13 OF 22 CASREACT COPYRIGHT 2005 ACS on STN
- AN 120:244929 CASREACT
- TI Preparation of π -deficient heteroarylzinc halides by oxidative addition of active zinc and its palladium-catalyzed reaction
- AU Sakamoto, Takao; Kondo, Yoshinori; Murata, Naoko; Yamanaka, Hiroshi
- CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan
- SO Tetrahedron (1993), 49(43), 9713-20

CODEN: TETRAB; ISSN: 0040-4020

DT Journal LA English

GΙ

AB The oxidative addition of active zinc to iodo- and bromo-substituted π -deficient heteroarenes such as pyridine, pyrimidine, and quinoline gave the corresponding heteroarylzinc halides which were transformed to the arylated and benzoylated derivs., e.g. I and II, by palladium-catalyzed reaction.

YIELD 54%

```
RX(1) RCT A 109-04-6

STAGE(1)

RGT D 91-20-3 Naphthalene, E 7439-93-2 Li, F
7646-85-7 ZnCl2

SOL 109-99-9 THF

STAGE(2)

RCT B 591-50-4

CAT 14221-01-3 Pd(PPh3)4

SOL 109-99-9 THF

PRO C 1008-89-5
```

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L13
    ANSWER 14 OF 22 CASREACT COPYRIGHT 2005 ACS on STN
AN
     120:217167 CASREACT
     Indolylzinc iodides by oxidative addition of active zinc to iodoindoles
ΤI
ΑU
     Sakamoto, Takao; Kondo, Yoshinori; Takazawa, Nobuo; Yamanaka, Hiroshi
CS
     Pharm. Inst., Tohoku Univ., Sendai, 980, Japan
SO
     Tetrahedron Letters (1993), 34(37), 5955-6
     CODEN: TELEAY; ISSN: 0040-4039
DT
     Journal
LA
     English
GI
```

AB Indolylzinc derivs. were prepared by the oxidative addition of active zinc to iodoindoles, e.g. I (R = iodo, R1 = H, CO2Et; R = H, R1 = iodo), which coupled with aromatic halides in the presence of palladium catalyst to give arylated indoles, e.g. I (R = Ph, 2-pyridinyl).

RX(1) OF 6 A + B ===> C

RX(1) RCT A 80360-14-1, B 591-50-4 RGT D 91-20-3 Naphthalene, E 7646-85-7 ZnCl2, F **7439-93-2** Li PRO C 153827-73-7 CAT 14221-01-3 Pd(PPh3)4 SOL 109-99-9 THF

L13 ANSWER 15 OF 22 CASREACT COPYRIGHT 2005 ACS on STN

AN 112:235036 CASREACT

TI Chemistry of tricarbonyl hemiketals and application of Evans technology to the total synthesis of the immunosuppressant (-)-FK-506

AU Jones, Todd K.; Reamer, Robert A.; Desmond, Richard; Mills, Sander G.

CS Merck Sharp and Dohme Res. Lab., Rahway, NJ, 07065-0900, USA

SO Journal of the American Chemical Society (1990), 112(8), 2998-3017

CODEN: JACSAT; ISSN: 0002-7863

DT Journal

LA English

GI

Details of model studies probing the chemical of the tricarbonyl region of FK-506 (I) are presented, and their use in designing a successful route to I is outlined. Applications of asym. oxazolidinone alkylation-aldol methodol. to a convergent, highly flexible synthesis of the C(10)-C(18) fragment and to improvements in the preparation of the C(20)-C(34) segment are also discussed.

Ι

RX(30) OF 853 ...BD + BW ===> BX...

BD

BX YIELD 69%

RX(30) RCT BD 126788-87-2

STAGE(1)

RGT BY 7439-93-2 Li, BZ 7440-23-5 Na

CAT 7553-56-2 I2

SOL 60-29-7 Et20

STAGE(2)

RCT BW 126788-92-9

SOL 109-99-9 THF

PRO BX 126788-93-0

L13 ANSWER 16 OF 22 CASREACT COPYRIGHT 2005 ACS on STN

AN 112:76903 CASREACT

TI Ultrasound-promoted coupling of heteroaryl halides in the presence of lithium wire. Novel formation of isomeric bipyridines in a Wurtz-type reaction

AU Osborne, Alan G.; Glass, Kathryn J.; Staley, Miriam L.

CS Dep. Chem., City Univ., London, EC1V OHB, UK

SO Tetrahedron Letters (1989), 30(27), 3567-8 CODEN: TELEAY; ISSN: 0040-4039

DT Journal

LA English

AB Ultrasonic irradiation of 2-bromopyridine in the presence of Li wire gives 2,2'-bipyridine, 2,4'-bipyridine and 4,4'-bipyridine, a novel formation of isomers in a Wurtz-type reaction. Similar reaction with 3-bromopyridine results in debromination.

RX(1) RCT A 109-04-6 RGT E 7439-93-2 Li PRO B 366-18-7, C 553-26-4, D 581-47-5 SOL 109-99-9 THF NTE ultrasound

L13 ANSWER 17 OF 22 CASREACT COPYRIGHT 2005 ACS on STN

AN 112:56373 CASREACT

TI Synthesis of 1-hydroxy-7-azatricyclo[6.3.1.02.7]dodecan-9-ones: potential intermediates for the total synthesis of securinines

AU Cote, Roland; Bouchard, Pierre; Couture, Yvon; Furstoss, Roland; Waegell, Bernard; Lessard, Jean

CS Dep. Chim., Univ. Sherbrooke, Sherbrooke, QC, J1K 2R1, Can.

SO Heterocycles (1989), 28(2), 987-98 CODEN: HTCYAM; ISSN: 0385-5414

DT Journal

LA English

GI

AB A synthesis of epimeric 1-hydroxy-7-azatricyclo[6.3.1.02.7]dodecan-9-ones I, in ten steps from p-MeOC6H4OH, is described. I were converted to the corresponding 9(10)-olefinic derivs. II.

RX(3) OF 123 H ===> I...

I YIELD 85%

RX(3) RCT H 150-76-5 RGT J 7664-41-7 NH3, K **7439-93-2** Li PRO I 69125-55-9 SOL 60-29-7 Et2O

L13 ANSWER 18 OF 22 CASREACT COPYRIGHT 2005 ACS on STN

AN 110:153591 CASREACT

TI Polyquinoline-supported ruthenium catalysts: selective oxidation of alcohols with coated electrodes

AU Stoessel, S. J.; Elliott, C. M.; Stille, John K.

CS Dep. Chem., Colorado State Univ., Fort Collins, CO, 80523, USA

SO Chemistry of Materials (1989), 1(2), 259-68 CODEN: CMATEX; ISSN: 0897-4756

DT Journal

LA English

Two ruthenium complexes containing the novel 2-(2-pyridyl)-4-phenylquinoline AB ligand (qpy), [Ru(trpy)(qpy)OH2]2+ (I) and [Ru(bpy)(qpy)pyOH2]2+ (II) (trpy = 2,2',2''-terpyridyl, bpy = 2,2'-bipyridyl, py = pyridine), were prepared as models for complexes supported on polyquinolines (III) containing qpy units in the backbone. These polymer complexes III•[Ru(trpy)OH2]+ (IV) and III • [Ru(bpy)pyOH2]2+ (V) were synthesized by a sequence of ligand-replacement reactions on Ru(trpy)Cl3 and [Ru(bpy)py4]Cl2, resp. Complexes I and II were catalytically active for the electrochem. oxidation of secondary alcs. to ketones and allylic or benzylic primary alcs. to aldehydes. Unactivated primary alcs. were not oxidized. Complexes IV and V coated on electrodes were more selective and were not catalytically active in the electrochem. oxidation of secondary alcs. (or unactivated primary alcs.); oxidation of benzylic and allylic alcs. to aldehydes took place. None of the catalysts carried the oxidation further to the corresponding carboxylic acids. Catalytic currents as high as 1 mA were observed

RX(2) OF 50 ...F + G ===> H...

F

H YIELD 86%

RX(2) RCT F 1066-45-1, G 118537-61-4 RGT I 7439-93-2 Li PRO H 118537-62-5 SOL 109-99-9 THF

L13 ANSWER 19 OF 22 CASREACT COPYRIGHT 2005 ACS on STN 108:112184 CASREACT ANTI Reactions of 2-chloro-3-formylquinolines ΑU Srivastava, Ranjan P.; Neelima; Bhaduri, A. P. Div. Med. Chem., Cent. Drug Res. Inst., Lucknow, 226 001, India Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1987), 26B(5), 418-22 CS SO CODEN: IJSBDB; ISSN: 0376-4699 DTJournal English LA GI

with MeMgI followed by pyridinium chlorochromate oxidation gave 3-acetyl-2-chloroquinoline (I; R1 = MeCO) which was condensed with R2C6H4CHO (R2 = H, OMe) to give the corresponding chalcones I (R1 = PhCH:CHCO, 4-MeOC6H4CH:CHCO). Cyclocondensation with NH2NH2.H2O gave pyrazoles III. I (R = H, Me, MeO, etc.; R1 = CHO) was condensed with MeCOCH2COMe to give I [R1 = (MeCO) 2C:CH]. Similarly, II was condensed with EtO2CCH2CN to give I [R1 = EtO2CC(CN):CH].

RX(33) OF 80 3 BS + 2 B ===> BT + BU

В

BU YIELD 30%

RX(33) RCT BS 109-04-6

STAGE(1) RGT BV **7439-93-2** Li SOL 60-29-7 Et20

STAGE(2)

RCT B 73568-25-9 SOL 60-29-7 Et2O PRO BT **113232-09-0**, BU 113232-10-3

L13 ANSWER 20 OF 22 CASREACT COPYRIGHT 2005 ACS on STN

AN 107:175846 CASREACT

TI Reactions of 1,4-bis(trimethylsilyl)-1,4-dihydropyridines with carbonyl compounds. A new method for regional synthesis of 3-alkylpyridines

AU Tsuge, Otohiko; Kanemasa, Shuji; Naritomi, Toshio; Tanaka, Junji

CS Interdiscip. Grad. Sch. Eng. Sci., Kyushu Univ., Kasuga, 816, Japan

SO Bulletin of the Chemical Society of Japan (1987), 60(4),

1497-504

CODEN: BCSJA8; ISSN: 0009-2673

DT Journal

LA English

GΙ

AB A new method of introducing alkyl groups at the 3-position of pyridines is described. Reductive disilylation of pyridine and its 2-Me, 3-Me, and 4-Me derivs. affords the corresponding 1,4-disilyl-1,4-dihydropyridines. In the presence of a catalytic amts. of Bu4N+F-, these dihydropyridines react smoothly with a variety of aldehydes and ketones to give 3-alkylpyridines. Thus, disilyldihydropyridine I was treated with 4-ClC6H4CHO in the presence of Bu4N+F- in THF to give 62% (chlorobenzyl)pyridine II.

YIELD 34%

RX(9) OF 55 2 AB + AC ===> A...

RX(9) RCT AB 75-77-4, AC 110-86-1

RGT AD **7439-93-2** Li

PRO A 29173-25-9

SOL 109-99-9 THF, 7727-37-9 N2

AN 107:39971 CASREACT

TI Synthesis of the tridentate pyridine donor 2,6-bis[1-phenyl-1-(2-pyridyl)ethyl]pyridine (L), including separation of meso and rac diastereoisomers via methylmercury(II) derivatives, and an x-ray structural study of meso-[2,6-bis[1-phenyl-1-(2-pyridyl)ethyl]pyridine-N,N',N"]methylmercury(II) nitrate dihydrate

AU Canty, Allan J.; Minchin, Nigel J.; Skelton, Brian W.; White, Allan H.

CS Chem. Dep., Univ. Tasmania, Hobart, 7001, Australia

SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1986), (10), 2201-4
CODEN: JCDTBI; ISSN: 0300-9246

DT Journal

LA English

GΙ

AB Tridentate pyridine donor ligand I (L) was prepared by treating 2,6-dichloropyridine with lithiated 2-(1-phenylethyl)pyridine. I reacted with MeHgNO2 to form complexes (II and III) of the meso and racemic diastereoisomers of I, [HgMe(L)]NO3.2H2O, which were readily separated by fractional crystallization The ligands meso- and rac-L were liberated from II and

III by reaction with aqueous cyanide ion. The structure of II was determined

by

x-ray crystallog. [MeHg(meso-L)]+ cations have irregular coordination geometry about the Hg atom, with the ligand present as a tripodal tridentate, HgCN3. 1H NMR spectra for the complexes suggest that the ligand is at least bidentate in MeOH.

RX(1) OF 9 2 A + B ===> C...

C YIELD 32%

STAGE(1)

RGT D **7439-93-2** Li, E 108-86-1 PhBr SOL 60-29-7 Et2O

STAGE(2)

RCT B **2402-78-0** SOL 108-88-3 PhMe PRO C **109056-79-3**

L13 ANSWER 22 OF 22 CASREACT COPYRIGHT 2005 ACS on STN

AN 55:118622 CASREACT

TI Action of the Grignard reagent on the amide group. XXXIII. A simple synthesis of nicotine

AU Lukes, R.; Cervinka, Otokar

CS Vysoka skola chem. technol., Prague

SO Collection of Czechoslovak Chemical Communications (1961), 26, 1893-4

CODEN: CCCCAK; ISSN: 0010-0765

DT Journal

LA German

AB cf. CA 55, 19781i. A BuLi solution, prepared from 1.4 g. Li, 4.63 g. BuCl, and 25 ml. Et20, and cooled with solid CO2, was treated first with 7.9 g. 3-bromopyridine, b. 169-71° (picrate m. 153-4°) and then in 30 min. with 5.66 g. N-methyl-2-pyrrolidone. The mixture was stirred with constant cooling under N 4 hrs., decomposed with 30 ml. 1:1 aqueous HCl, alkalized

with aqueous NaOH, steam-distilled the distillate neutralized with N HCl, concentrated $\,$

in vacuo, the base liberated with aqueous NaOH, extracted with ${\tt Et2O}$, the extract

dried over solid KOH, and fractionated to give 1.5 g. N-methylmyosmine (I), b2 87-8°; dipicrate m. 163.5-4.5° (EtOH). Heating 1 g. I, 3 ml. 95% HCO2H, and 3 g. fused HCO2K at 160-70° 5 hrs., diluting the cooled mixture with H2O, steam-distilling, and working up the distillate as above gave 0.67 dl-nicotine, b14 118-19°; dipicrate m. 221° (EtOH-H2O).

RX(2) OF 3 **E** + F ===> **A...**

RX(2) RCT E **626-55-1**, F 872-50-4

RGT G 7439-93-2 Li, H 124-38-9 CO2

PRO A 525-74-6

SOL 60-29-7 Et20

NTE Classification: C-Arylation; Substitution; # Conditions: BuLi BuCl Li CO2; /N2 Et2O 4h

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L17
              4 S L14-L16 AND L8
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T<sub>1</sub>17
    ANSWER 1 OF 4 CASREACT COPYRIGHT 2005 ACS on STN
     138:73075 CASREACT
ΑN
TI
     Process for the preparation of substituted aromatics via lithiation and
     electrophilic alkylation of haloaromatics
     Meudt, Andreas; Erbes, Michael; Forstinger, Klaus
TN
     Clariant G.m.b.H., Germany
PA
SO
     Eur. Pat. Appl., 11 pp.
     CODEN: EPXXDW
DT
     Patent
LA
     German
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                           APPLICATION NO. DATE
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                                           ______
                                           EP 2002-12763
PΙ
     EP 1270535
                      A2
                            20030102
                                                             20020608
   . EP 1270535
                      A3
                            20040218
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             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
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                      A1
                            20030109
                                           DE 2001-10155209 20011109
     US 2003018192
                                           US 2002-171444
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     US 6657093
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     JP 2003073308
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US 2003-677412

20031002

US 2004073032

PRAI DE 2001-10129765 20010620

A1

20040415

DE 2001-10155209 20011109 US 2002-171444 20020613

OS MARPAT 138:73075

- L17 ANSWER 2 OF 4 CASREACT COPYRIGHT 2005 ACS on STN
- AN 131:336801 CASREACT
- TI Application of Stille coupling to the preparation of arylated phthalonitriles and **phthalocyanines**
- AU Aranyos, Viviane; Castano, Ana M.; Grennberg, Helena
- CS Department of Organic Chemistry, Uppsala University, Uppsala, 751 21, Swed.
- SO Acta Chemica Scandinavica (1999), 53(9), 714-720 CODEN: ACHSE7; ISSN: 0904-213X
- PB Munksgaard International Publishers Ltd.
- DT Journal
- LA English
- RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L17 ANSWER 3 OF 4 CASREACT COPYRIGHT 2005 ACS on STN
- AN 124:289060 CASREACT
- TI Total Synthesis of (-)-Virginiamycin M2 Using Second-Generation Vinylogous Urethane Chemistry
- AU Schlessinger, R. H.; Li, Yu-Jang
- CS Department of Chemistry, University of Rochester, Rochester, NY, 14627, USA
- SO Journal of the American Chemical Society (1996), 118(13), 3301-2 CODEN: JACSAT; ISSN: 0002-7863
- PB American Chemical Society
- DT Journal
- ·LA English
- L17 ANSWER 4 OF 4 CASREACT COPYRIGHT 2005 ACS on STN
- AN 107:39971 CASREACT
- TI Synthesis of the tridentate pyridine donor 2,6-bis[1-phenyl-1-(2-pyridyl)ethyl]pyridine (L), including separation of meso and rac diastereoisomers via methylmercury(II) derivatives, and an x-ray structural study of meso-[2,6-bis[1-phenyl-1-(2-pyridyl)ethyl]pyridine-N,N',N"]methylmercury(II) nitrate dihydrate
- AU Canty, Allan J.; Minchin, Nigel J.; Skelton, Brian W.; White, Allan H.
- CS Chem. Dep., Univ. Tasmania, Hobart, 7001, Australia
- SO Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1972-1999) (1986), (10), 2201-4
 CODEN: JCDTBI; ISSN: 0300-9246
- DT Journal
- LA English